

GROUP BM 02 FUNGICIDE/BACTERICIDE

## CAVURAM™

BIOFUNGICIDE

For Agricultural, Outdoor, and Greenhouse Uses

Live organism

COMMERCIAL

WETTABLE POWDER

Bacterial based fungicide/bactericide used for suppression or partial suppression of selected soil-borne and foliar diseases on agricultural and ornamental crops grown outdoor or in greenhouses or other covered structures.

**ACTIVE INGREDIENT:**

*Bacillus subtilis* var. *amyloliquefaciens* Strain FZB24 .....1.0 x 10<sup>10</sup> colony forming units/g

**READ THE LABEL AND PAMPHLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**

**CAUTION SKIN IRRITANT  
POTENTIAL SENSITIZER**

REGISTRATION NUMBER: **35211**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **100 g – 1000 g**

**Syngenta Canada Inc.**  
140 Research Lane, Research Park  
Guelph, Ontario N1G 4Z3  
Telephone: 1-877-964-3682

**Manufactured:** dd-mm-year  
**Batch code/Expiry date:** xxxx/dd-mm-year

Label

## 1.0 NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

## 2.0 FIRST AID

**IN CASE OF POISONING**, contact a doctor or a poison control centre **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**If swallowed**, call a poison control centre or doctor **IMMEDIATELY** for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing**, take off contaminated clothing. Rinse skin **IMMEDIATELY** with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

**If inhaled**, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**If in eyes**, hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

## 3.0 TOXICOLOGICAL INFORMATION

Treat symptomatically.

## 4.0 PRECAUTIONS

### KEEP OUT OF REACH OF CHILDREN.

May cause sensitization. Keep away from food, drink, and animal feed.

May irritate the skin. Avoid contact with the skin and clothing. Avoid breathing dust.

**Restricted Entry Intervals (REI): DO NOT** enter or allow worker entry into treated areas during a restricted entry interval (REI) of 0 hours.

If this pest control product is to be used on a commodity that may be exported to other countries in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

## **5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Wear a long-sleeved shirt and long pants, waterproof gloves, shoes and socks, eye goggles, and a dust-mist filtering respirator/mask (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH-approved respirator/mask with any N-95, R-95, P-95 or HE filter when mixing, loading and applying or during equipment clean-up and repair.

After handling, wash hands thoroughly with soap and water.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## **6.0 ENVIRONMENTAL PRECAUTIONS**

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body. For guidance, contact the Provincial/Territorial Regulatory Agency.

## **7.0 STORAGE**

Keep in original container during storage. Store product in a dry, well-ventilated place away from seed, fertilizer or other pesticides. Keep away from direct sunlight, fire or open flame, or other source of heat. Store this product away from food or feed.

CAVURAM™ consists of living microbes. Store at temperatures between 4°C and 25°C and use by the expiry date noted on the label. Do not freeze. Close opened packages tightly.

## **8.0 DISPOSAL**

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for clean-up of spills.

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial/territorial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty, rinsed container unsuitable for further use.
4. Dispose of the container in accordance with provincial/territorial requirements.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,  
CALL 1-800-327-8633***

CAVURAM™ is a trademark of a Syngenta Group Company.

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Pamphlet

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Avoid application when heavy rain is forecast.

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4. Dispose of the bag in accordance with provincial/territorial requirements.



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CALL 1-800-327-8633***

**9.0 DIRECTIONS FOR USE**

**9.1 General Information**

CAVURAM is a bacterial based fungicide / bactericide used for suppression or partial suppression of selected soil-borne and foliar diseases on agricultural and ornamental crops grown outdoors or in greenhouses or other covered structures as listed in the pamphlet.

CAVURAM is most effective in low to medium disease pressure situations and should be applied prior to disease or at disease establishment to maximize suppression.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Syngenta Canada Inc. at 1-877-SYNGENTA / 1-877-964-3682 for information before applying any tank mix that is not specifically recommended on this label.

**9.2 Mixing Instructions**

**NOTE:** CAVURAM must be pre-mixed thoroughly with water to assure a properly distributed suspension. The required amount of CAVURAM should be added slowly into the spray tank during filling. With concentrated sprays, pre-mix the required amount of CAVURAM in a clean container and add to the spray tank as it is being filled. Keep agitator running when filling spray tank and during spray operations. If mix water pH is less than 5 or greater than 8, pH adjustment and buffering may improve suspension. Apply content of entire suspension within a few hours of mixing to ensure viability of CAVURAM.

## 10.0 CROP USE DIRECTIONS

### 10.1 Crop Group 1 – Root and Tuber Vegetables

<b>CROP GROUP 1: Root and Tuber Vegetables</b>	
<b>CROPS</b>	Arrowroot, black salsify, carrot, celeriac (celery root), chicory, Chinese artichoke, chufa, dasheen (taro), edible burdock, garden beet, ginger, ginseng, horseradish, Jerusalem artichoke, oriental radish (daikon), parsnip, potato, radish, rutabaga, salsify, skirret, Spanish salsify, sugar beet, sweet potato, true yam, turnip, turnip-rooted chervil, turnip-rooted parsley.
<b>DISEASE SUPPRESSED</b>	Damping-off and root rot ( <i>Rhizoctonia solani</i> , <i>Pythium</i> spp., <i>Fusarium oxysporum</i> , <i>Phytophthora</i> spp.)
<b>USE RATE</b>	187.5 – 375 g/ha in at least 935 L of water/ha
<b>APPLICATION METHOD</b>	Drench
<b>APPLICATION TIMING</b>	<p>Apply at 7-day intervals when conditions are conducive to disease development. Higher rate is recommended under conditions of moderate to high disease pressure.</p> <p>Apply at planting (seeded or transplanted) or immediately following through overhead sprinkler, drip injection (surface or buried), or in furrow soil spray at planting.</p> <p>For sequential applications using overhead sprinkler, basal sprays or drip injection apply every 7-14 days as needed through the season. When using basal spray, incorporate by following with irrigation to soak root zone.</p>
<b>PRE-HARVEST INTERVAL (PHI)</b>	0 hours
<b>NOTES</b>	Fields with historical disease problems may require a higher rate, more applications, and shorter application intervals for better efficacy.

### 10.2 Wheat

<b>CROPS</b>	<b>Wheat</b>
<b>DISEASE SUPPRESSED</b>	Fusarium head blight ( <i>Fusarium graminearum</i> ) (Partial Suppression)
<b>USE RATE</b>	256 g/ha in at least 187 L water/ha
<b>APPLICATION METHOD</b>	Foliar
<b>APPLICATION TIMING</b>	<p>Apply CAVURAM to wheat at early flowering.</p> <p>Apply at 7-day intervals when conditions are conducive to disease development.</p>
<b>PRE-HARVEST INTERVAL (PHI)</b>	0 hours
<b>NOTES</b>	<p>Follow the general mixing instructions in this booklet to ensure a properly distributed suspension.</p> <p>Follow spray equipment manufacturer's instructions to obtain adequate coverage with minimal plant runoff.</p> <p>CAVURAM must be used in conjunction with IPM practices in order to adequately manage mycotoxin levels in wheat kernels.</p>

### 10.3 Lettuce

<b>CROPS</b>	<b>Lettuce</b>
<b>DISEASE SUPPRESSED</b>	Lettuce drop ( <i>Sclerotinia sclerotiorum</i> , <i>Sclerotinia minor</i> )
<b>USE RATE</b>	187.5 – 375 g/ha in at least 187 L of water/ha
<b>APPLICATION METHOD</b>	Soil plus foliar
<b>APPLICATION TIMING</b>	<p>Apply when conditions are conducive to disease development. Higher rate is recommended under conditions of moderate to high disease pressure.</p> <p>First application should be made at planting or transplanting. Apply in-furrow or basal spray to make sure the application is to the root zone. When using basal sprays incorporate by following with irrigation to soak the root zone. Sequential applications should initiate at lettuce thinning and continuing every 7-14 days depending on disease pressure.</p> <p>For optimum suppression of <i>S. minor</i>, CAVURAM should be applied to the root zone.</p> <p>A combination of applications for <i>S. sclerotiorum</i> suppression should be soil surface applications and foliar applications at infestation sites (dead or dying tissue) for optimum suppression.</p>
<b>PRE-HARVEST INTERVAL (PHI)</b>	0 hours
<b>NOTES</b>	Fields with historical disease problems may require a higher rate, more applications, and shorter application intervals for better efficacy.
<b>DISEASE SUPPRESSED</b>	Downy mildew ( <i>Bremia lactucae</i> ) (Partial suppression)
<b>USE RATE</b>	187.5 – 375 g/ha
<b>APPLICATION METHOD</b>	Foliar
<b>APPLICATION TIMING</b>	<p>Start applications prior to disease or at disease establishment. Apply every 7-14 days alone, or in rotation with other registered fungicides.</p> <p>Higher rate is recommended under conditions of moderate to high disease pressure.</p> <p>Apply enough spray solution for thorough coverage.</p>
<b>PRE-HARVEST INTERVAL (PHI)</b>	0 hours

<b>DISEASE SUPPRESSED</b>	Bottom rot ( <i>Rhizoctonia solani</i> )
<b>USE RATE</b>	187.5 g/ha in at least 935 L of water/ha
<b>APPLICATION METHOD</b>	Drench
<b>APPLICATION TIMING</b>	<p>Application should be directed to plant base.</p> <p>Apply at planting (seeded or transplanted) or immediately following through overhead sprinkler, drip injection (surface or buried), in-furrow soil spray or with liquid fertilizer at planting.</p> <p>Follow general mixing instructions in this booklet to ensure a properly distributed suspension.</p> <p>Applications should be made to the plant base and soil/growing medium surface to protect the contact between the soil/growing medium and leaf tissue as the lettuce develops.</p> <p>Continue applications at 7-day intervals when conditions are conducive to disease development.</p> <p>Water-in CAVURAM immediately after application.</p>
<b>PRE-HARVEST INTERVAL (PHI)</b>	0 hours

#### 10.4 Tomatoes and Peppers

<b>CROPS</b>	Tomato, peppers
<b>DISEASE SUPPRESSED</b>	Damping-off and root rot ( <i>Rhizoctonia solani</i> , <i>Pythium</i> spp., <i>Fusarium oxysporum</i> , <i>Phytophthora</i> spp.)
<b>USE RATE</b>	187.5 – 375 g/ha in at least 935 L of water/ha
<b>APPLICATION METHOD</b>	Drench
<b>APPLICATION TIMING</b>	<p>Apply at 7-day intervals when conditions are conducive to disease development. Higher rate is recommended under conditions of moderate to high disease pressure.</p> <p>For soil disease applications, apply as drench on transplants prior to planting.</p> <p>Apply with liquid fertilizer or as an in-furrow soil spray or drip irrigation injection (surface or buried) at or immediately following planting.</p> <p>Follow with drip irrigation or basal sprays every 7-14 days as needed through the season. When using basal spray, incorporate by following with irrigation to soak root zone.</p>
<b>PRE-HARVEST INTERVAL (PHI)</b>	0 hours
<b>NOTES</b>	Fields with historical disease problems may require a higher rate, more applications, and shorter application intervals for better efficacy.

### 10.5 Tomatoes (Greenhouse and Field)

<b>CROPS</b>	Tomato (greenhouse and field)
<b>DISEASES SUPPRESSED</b>	Powdery mildew ( <i>Leveillula taurica</i> , <i>Oidium neolycopersici</i> ) (Partial suppression) Early blight ( <i>Alternaria solani</i> ) (Partial suppression) Bacterial speck ( <i>Pseudomonas syringae</i> pv. tomato) (Partial suppression) Bacterial spot ( <i>Xanthomonas campestris</i> ) (Partial suppression)
<b>USE RATE</b>	187.5 – 375 g/ha in at least 187 L water/ha
<b>APPLICATION METHOD</b>	Foliar
<b>APPLICATION TIMING</b>	Higher rate is recommended under conditions of moderate to high disease pressure.  Start foliar disease applications prior to disease or at disease establishment.  Apply every 7 – 14 days alone, or in rotation, or tank mix with other registered fungicides.  Established or heavier disease pressure may require switching to rotations or to chemical fungicides.  Apply enough spray solution for thorough coverage.
<b>PRE-HARVEST INTERVAL (PHI)</b>	0 hours
<b>DISEASE SUPPRESSED</b>	Late blight ( <i>Phytophthora infestans</i> )
<b>USE RATE</b>	375 g/ha in at least 935 L of water/ha
<b>APPLICATION METHOD</b>	Foliar
<b>APPLICATION TIMING</b>	Apply after emergence as a foliar spray.  Continue applications at 7-day intervals when conditions are conducive to disease development.
<b>PRE-HARVEST INTERVAL (PHI)</b>	0 hours
<b>NOTES</b>	Follow the general mixing instructions in this booklet to ensure a properly distributed suspension.

### 10.6 Crop Group 9 - Cucurbits

<b>CROP GROUP 9: Cucurbits</b>	
<b>CROPS</b>	Chinese waxgourd, citron melon, cucumbers, gherkin, edible gourd (includes hyotan, cucuzza, hechima, Chinese okra), <i>Momordica</i> spp (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), muskmelon (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), pumpkin, squash (includes acorn squash, butternut squash, calabaza, crookneck squash, hubbard squash, scallop squash, spaghetti squash, straightneck squash, vegetable marrow, zucchini), watermelon.
<b>DISEASE SUPPRESSED</b>	Damping-off and root rot ( <i>Rhizoctonia solani</i> , <i>Pythium</i> spp., <i>Fusarium oxysporum</i> , <i>Phytophthora</i> spp.)
<b>USE RATE</b>	187.5 – 375 g/ha in at least 935 L of water/ha
<b>APPLICATION METHOD</b>	Drench
<b>APPLICATION TIMING</b>	<p>Higher rate is recommended under conditions of moderate to high disease pressure.</p> <p>Apply at 7-day intervals when conditions conducive to disease development. Higher rate is recommended under conditions of moderate to high disease pressure.</p> <p>For soil disease applications, apply as drench on transplants prior to planting.</p> <p>Apply with liquid fertilizer or as an in-furrow soil spray or drip irrigation injection (surface or buried) at or immediately following planting.</p> <p>Follow with drip injection or basal sprays every 7-14 days as needed through the season. When using basal spray, incorporate by following with irrigation to soak root zone.</p>
<b>PRE-HARVEST INTERVAL (PHI)</b>	0 hours
<b>NOTES</b>	Fields with historical disease problems may require a higher rate, more applications, and shorter application intervals for better efficacy.
<b>DISEASES SUPPRESSED</b>	Powdery mildew ( <i>Podosphaera xanthii</i> ) (Partial suppression) Angular leaf spot ( <i>Pseudomonas syringae</i> ) (Partial suppression)
<b>USE RATE</b>	187.5 – 375 g/ha in at least 187 L of water/ha
<b>APPLICATION METHOD</b>	Foliar
<b>APPLICATION TIMING</b>	<p>Higher rate is recommended under conditions of moderate to high disease pressure.</p> <p>Start foliar disease applications prior to disease or at disease establishment.</p> <p>Apply every 7-14 days alone or in rotation or tank mix with other registered fungicides.</p>
<b>PRE-HARVEST INTERVAL (PHI)</b>	0 hours
<b>NOTES</b>	Established or heavier disease pressure may require switching to rotations or to chemical fungicides.

### 10.7 Ornamentals (Greenhouse and Outdoor)

<b>CROPS</b>	Ornamentals (Greenhouse and outdoor)
<b>DISEASE SUPPRESSED</b>	Seedling damping-off ( <i>Rhizoctonia solani</i> , <i>Pythium</i> spp., <i>Fusarium oxysporum</i> , <i>Phytophthora</i> spp.)
<b>USE RATE</b>	187.5 – 375 g/ha in at least 935 L of water/ha
<b>APPLICATION METHOD</b>	Drench
<b>APPLICATION TIMING</b>	<p>Apply at 7-day intervals when conditions are conducive to disease development. Higher rate is recommended under conditions of moderate to high disease pressure.</p> <p>For soil disease applications, apply as drench on transplants prior to planting.</p> <p>Apply with liquid fertilizer or as an in-furrow soil spray or drip irrigation injection (surface or buried) at or immediately following planting.</p> <p>Follow with drip injection or basal sprays every 7-14 days as needed through the season. When using basal spray, incorporate by following with irrigation to soak root zone.</p>
<b>PRE-HARVEST INTERVAL (PHI)</b>	0 hours
<b>NOTES</b>	Fields with historical disease problems may require more applications and shorter application interval for better efficacy.

### 10.8 Cyclamen (Greenhouse)

<b>CROPS</b>	Cyclamen (greenhouse)
<b>DISEASE SUPPRESSED</b>	Fusarium wilt ( <i>Fusarium oxysporum f. sp. cyclamis</i> ) (Partial suppression)
<b>USE RATE</b>	20 g/100 L
<b>APPLICATION METHOD</b>	Drench
<b>APPLICATION TIMING</b>	<p>Apply CAVURAM to seedlings or to newly rooted cuttings. Drench plants with the CAVURAM suspension making sure the root system is thoroughly soaked, allowing CAVURAM to work into the root zone.</p> <p>Continue applications at 7-day intervals when conditions are conducive to disease development.</p>
<b>PRE-HARVEST INTERVAL (PHI)</b>	0 hours
<b>NOTES</b>	Follow the general mixing instructions in this booklet to ensure a properly distributed suspension

### 10.9 Crop Group 13-07 – Berry and Small Fruit

<b>CROP GROUP 13-07: Berry and Small Fruit</b>	
<b>CROPS</b>	Amur river grape, aronia berry, bayberry, bearberry, bilberry, blackberry, blueberry, buffalo currant, buffaloberry, Chilean guava, chokecherry, cloudberry, cranberry, currant (red and black), elderberry, European barberry, gooseberry, grape, highbush cranberry, honeysuckle (edible), huckleberry, jostaberry, juneberry (Sasktoon), kiwi (fuzzy and hardy), loganberry, maypop, mountain pepper berries, mulberry, muntries, native currant, partridgeberry, pincherry, raspberry (black and red), riberry, salal, schisandra berry, sea buckthorn, serviceberry, strawberry, wild raspberries.
<b>DISEASE SUPPRESSED</b>	Young plant damping-off ( <i>Rhizoctonia solani</i> , <i>Pythium</i> spp., <i>Fusarium oxysporum</i> , <i>Phytophthora</i> spp.)
<b>USE RATE</b>	187.5 – 375 g/ha in at least 935 L of water/ha
<b>APPLICATION METHOD</b>	Drench
<b>APPLICATION TIMING</b>	<p>Apply at 7-day intervals when conditions conducive to disease development. Higher rate is recommended under conditions of moderate to high disease pressure.</p> <p>For soil disease applications, apply as drench on transplants prior to planting.</p> <p>Apply with liquid fertilizer or as an in-furrow soil spray or drip irrigation injection (surface or buried) at or immediately following planting.</p> <p>Follow with drip injection or basal sprays every 7-14 days as needed through the season. When using basal spray, incorporate by following with irrigation to soak root zone.</p>
<b>PRE-HARVEST INTERVAL (PHI)</b>	0 hours
<b>NOTES</b>	Fields with historical disease problems may require a higher rate, more applications, and shorter application intervals for better efficacy.
<b>DISEASE SUPPRESSED</b>	Powdery mildew ( <i>Erysiphe necator</i> , <i>Podosphaera aphanis</i> )(grapes and strawberry) <i>Botrytis</i> gray mould ( <i>Botrytis cinerea</i> )
<b>USE RATE</b>	187.5 – 375 g/ha in at least 187 L of water/ha
<b>APPLICATION METHOD</b>	Foliar
<b>APPLICATION TIMING</b>	<p>Higher rate is recommended under conditions of moderate to high disease pressure.</p> <p>Start foliar disease applications prior to disease or at disease establishment.</p> <p>Apply every 7-14 days alone or in rotation or tank mix with other registered fungicides.</p>
<b>PRE-HARVEST INTERVAL (PHI)</b>	0 hours
<b>NOTES</b>	Established or heavier disease pressure may require switching to rotations or to chemical fungicides.